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Re-evaluation Note REV2010-11

Acrolein

(publié aussi en français)

3 September 2010

This document is published by the Health Canada Pest Management Regulatory Agency. For further information, please contact:

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HC Pub: 100291

ISBN: 978-1-100-16032-0 (978-1-100-16033-7)
Catalogue number: H113-5/2010-11E (H113-5/2010-11E-PDF)

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1.0 Background

Acrolein is under re-evaluation by Health Canada's Pest Management Regulatory Agency (PMRA). The purpose of this Re-evaluation Note is to notify registrants, pesticide regulatory officials, and the Canadian public of the re-evaluation status and the implementation of proposed interim measures for pesticide products containing acrolein. Appendix I lists currently registered products containing acrolein.

2.0 Regulatory Strategy

At this time, the PMRA is proposing that registrants of products containing this active ingredient implement measures to limit user exposure and to further protect bystanders and the environment. The implementation of these measures is considered to be a first step towards the completion of the re-evaluation of the Canadian uses of products containing this active ingredient.

The proposed measures are consistent with measures adopted by the United States Environmental Protection Agency (USEPA) through the Reregistration Eligibility Decision (RED) published for acrolein in 2008 and amendment to the RED published in 2009.

The measures include amendments to the labels of products containing acrolein, and to the Application and Safety Manual of the restricted class product registered for the control of submerged and floating weeds and algae in irrigation canals (product registration number 10948) to further protect workers, bystanders and the environment. These measures are in addition to the risk mitigation measures already in practice and/or required on product labels, such as personal protective equipment, provincial certification and training of applicators. Appendix II lists all proposed amendments.

The PMRA requires additional data to conduct a refined environmental exposure and risk assessment. The requirements are similar to the USEPA requirements.

3.0 Supporting Documentation

The USEPA RED document for acrolein is available on the Office of Pesticide Programs' website at www.epa.gov/pesticides/reregistration.

4.0 Data Requirements

DACO 8.2.3.3.3 – Phototransformation – air
DACO 8.2.3.4.2 – Biotransformation in soil – aerobic soil 20-30°C
DACO 8.2.3.4.4 – Biotransformation in soil – anaerobic (flooded) soil 20-30°C
DACO 8.2.3.5.2 – Biotransformation in aquatic systems – aerobic water 20-30°C
DACO 8.2.3.5.5 – Biotransformation in aquatic systems – anaerobic sediment/water 20-30°C
DACO 8.2.4.2 – Laboratory studies of mobility – adsorption / desorption
DACO 9.8.4 – Terrestrial vascular plants

These studies must be conducted with MAGNACIDE H Herbicide (Registration Number 10948) or a product with equivalent formulation and guarantee and be conducted according to the appropriate USEPA Office of Prevention, Pesticides and Toxic Substances or Organisation for Economic Co-operation and Development guidelines.

5.0 Next steps

The PMRA will accept written comments on this proposal up to 60 days from the date of publication of this document. Please forward all comments to Publications (please see contact information indicated on the cover page of this document). Before making a final re-evaluation decision on interim measures for acrolein, the PMRA will consider all comments received from the public in response to this consultation document. The PMRA will then publish a Re-evaluation Note that will include the decision, the reasons for it, a summary of comments received on the proposed decision and the PMRA's response to these comments.

Appendix I Registered Acrolein Products as of 22 January 2010

Registration Number	Marketing Class	Registrant	Product Name	Formulation Type	Guarantee (%)
11626	Technical	Baker Petrolite Corporation	Magnacide B Microbicide Technical	Solution	95
10948	Restricted	Baker Petrolite Corporation	Magnacide H Herbicide	Solution	95
27928	Commercial	Baker Petrolite Corporation	Magnacide B Microbicide	Solution	95

Appendix II Proposed Label Amendments for Products Containing Acrolein

The label amendments presented below do not include all label requirements for individual end-use products, such as first aid statements, disposal statements, precautionary statements and supplementary protective equipment. Information on labels of currently registered products should not be removed unless it contradicts the label statements below.

Magnacide B Microbiocide, Registration No. 27928

The label of the commercial class product registered for use in oilfield injection systems (Reg. No. 27928) must be amended as follows to further protect workers, bystanders and the environment.

I) In the **"DIRECTION FOR USE"** section, the following statement must be removed:

> This material must only be applied in accordance with directions on this label and under the direct supervision of trained personnel.

and replaced with the following:

> This material must only be applied in accordance with directions on this label. Applicators must have completed a training program on the safe use of this product provided by the registrant within the last 12 months.

Magnacide H Herbicide, Registration No. 10948

A. *Amendments to the Product Label*

The label of the restricted product registered for the control of submerged and floating weeds and algae in irrigation canals (Reg. No. 10948) must be amended to include the following statements to further protect workers, bystanders and the environment.

I) The following statement must be included on the primary display panel:

> This product must be accompanied by the product Application and Safety Manual. Read and understand the entire label and manual prior to use. All parts of the product label and manual are important for safe and effective use of this product and must be implemented during application.

II) The following statements must be included in the boxed section **"NOTICE TO USER"**:

- During application, two **trained** and **certified** applicators must be on site at all times. Applicators must be able to maintain visual contact with all applicators participating in the application. No-one is allowed to participate in the application unless they are holding an appropriate pesticide applicator certificate or license recognized by the provincial/territorial pesticide regulatory agency where the pesticide application is to occur and applicators must complete a training program provided by the registrant within the last 12 months. The registrant training program must comprise, at the minimum, training on the safe and effective use of this product including all parts of this label and the MAGNACIDE H Herbicide Application and Safety Manual.

- All applications must be made during daylight hours.

- Do not exceed 8 applications per application point per year. An individual application point, as defined, may consist of multiple treatments/releases within a contiguous irrigation canal, to ensure aquatic weed control throughout the entire irrigation canal or portion thereof.

- A minimum of 14 days between applications must be respected.

- Applicators must placard or post signs at the start and end of each canal section, and around the perimeter of the application equipment area. Specific sign requirements are listed in the product Application and Safety Manual under DIRECTIONS FOR USE.

III) The following statement must be removed from the section entitled **"ENVIRONMENTAL HAZARDS"**:

This product is toxic to fish and wildlife.

and replaced by:

This product is toxic to aquatic organisms, birds, and mammals.

IV) The following statement must be removed from the section titled **"TOXICOLOGICAL INFORMATION – WARNING SIGNS AND SYMPTOMS"**:

Because of the extreme lachrymatory warning effect, the concentration tolerable by man is far below the minimum lethal concentration.

B. *Amendments to the Application and Safety Manual*

The product Application and Safety Manual must be amended to include a module on reducing wildlife exposure. This module is to focus on:

- the risks to fish and aquatic organisms;
- the importance of limiting the contamination of natural fish bearing waters by release of acrolein treated canal water; and
- how to contain the irrigation water while acrolein is degrading.

This module must be submitted to the PMRA for approval prior to its inclusion in the product Application and Safety Manual.

The Application and Safety Manual of the restricted product registered for the control of submerged and floating weeds and algae in irrigation canals (Reg. No. 10948) must also be amended to include the following statements to further protect workers, bystanders and the environment.

I) The following statements must be included in the boxed section **"NOTICE TO USER"**:

- During application, two **trained** and **certified** applicators must be on site at all times. Applicators must be able to maintain visual contact with all applicators participating in the application. No-one is allowed to participate in the application unless they are holding an appropriate pesticide applicator certificate or license recognized by the provincial/territorial pesticide regulatory agency where the pesticide application it to occur and applicators must complete a training program provided by the registrant within the last 12 months. The registrant training program must comprise, at the minimum, training on the safe and effective use of this product including all parts of the product label and this Application and Safety Manual.

- All applications must be made during daylight hours.

- Do not exceed 8 applications per application point per year. An individual application point, as defined, may consist of multiple treatments/releases within a contiguous irrigation canal, to ensure aquatic weed control throughout the entire irrigation canal or portion thereof.

- A minimum of 14 days between applications must be respected.

- Applicators must placard or post signs at the start and end of each canal section, and around the perimeter of the application equipment area. Specific sign requirements are listed under **DIRECTIONS FOR USE**.

II) The following statements must be included in the section entitled **"DIRECTIONS FOR USE"**:

- Applicators must placard or post signs at the start and end of each canal section, and around the perimeter of the application equipment area (truck, hoses and skids). Signs posted around the application equipment area must be no more than 4.5 metres apart. All signs must conform to the following requirements:

a) Signs shall be at least 35 cm by 25 cm in size, and letters at least 7 cm in height, unless smaller-sized signs are necessary because the treated area is too small to accommodate signs of this size. Letters shall be clearly legible.

b) Signs must bear the following:
   1. The signal word "DANGER" and the skull and crossbones.
   2. The statements "DO NOT ENTER", "Pesticide Application in Progress" and "NO SWIMMING"
   3. The start date and time of application.
   4. The end date and time of application.
   5. The name of the pesticide.
   6. The name, address and telephone number of the applicator or pesticide handler.

- Signs must remain posted during application and must be removed no later than 3 days after treatment. Only a certified applicator (or someone under his/her supervision) may remove warning signs.

- Handlers must use a closed system that is designed by the manufacturer to prevent dermal and inhalation exposures by removing the product from the container and applying the product below the water's surface. At any disconnect point, the system must be equipped with a dry disconnect or dry couple shut-off device that will limit drippage to no more than 2 ml per disconnect. The closed system must function properly and be used and maintained in accordance with the manufacturer's written operating instructions. Handlers must wear the personal protective equipment on this labelling.

III) The following statement must be removed from the section entitled **"ENVIRONMENTAL HAZARDS"**:

> This product is toxic to fish and wildlife.

and replaced by:

> This product is toxic to aquatic organisms, birds, and mammals.

IV) The following statement must be removed from the section **entitled "FIRST AID – Toxicological Information – WARNING SIGNS AND SYMPTOMS"**:

Because of the extreme lachrymatory warning effect, the concentration tolerable by man is far below the minimum lethal concentration.